Stan S Solomon

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

237 papers	11,141 citations	56 h-index	97 g-index
244 ext. papers	12,492 ext. citations	4.8 avg, IF	6.09 L-index

#	Paper	IF	Citations
237	On Recent Large Antarctic Ozone Holes and Ozone Recovery Metrics. *Geophysical Research Letters*, **2021**, 48, e2021GL095232	4.9	3
236	Climate Changes in the Upper Atmosphere: Contributions by the Changing Greenhouse Gas Concentrations and Earth's Magnetic Field From the 1960s to 2010s. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA029067	2.6	4
235	First Comparison of Traveling Atmospheric Disturbances Observed in the Middle Thermosphere by Global-Scale Observations of the Limb and Disk to Traveling Ionospheric Disturbances Seen in Ground-Based Total Electron Content Observations. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029248	2.6	3
234	Investigation of a Neutral "Tongue" Observed by GOLD During the Geomagnetic Storm on May 11, 2019. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028817	2.6	20
233	Variations in Thermosphere Composition and Ionosphere Total Electron Content Under "Geomagnetically Quiet" Conditions at Solar-Minimum. *Geophysical Research Letters*, **2021**, 48, e2021GL093300	4.9	12
232	Spectroscopy, gas kinetics, and opacity of thermospheric nitric oxide and implications for analysis of SABER infrared emission measurements at 5.3 μm. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2021**, 268, 107609	2.1	3
231	Observation of Postsunset OI 135.6-nm Radiance Enhancement Over South America by the GOLD Mission. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028108	2.6	9
230	Longitudinal Variation of Postsunset Plasma Depletions From the Global-Scale Observations of the Limb and Disk (GOLD) Mission. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028510	2.6	2
229	Solar flare effects in the Earth's magnetosphere. *Nature Physics*, **2021**, 17, 807-812	16.2	3
228	Role Of the Sun and the Middle atmosphere/thermosphere/ionosphere In Climate (ROSMIC): a retrospective and prospective view. *Progress in Earth and Planetary Science*, **2021**, 8,	3.9	6
227	Variations of Lower Thermospheric FUV Emissions Based on GOLD Observations and GLOW Modeling. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA027810	2.6	2
226	Observation of Thermospheric Gravity Waves in the Southern Hemisphere With GOLD. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027405	2.6	2
225	Global-Scale Observations of the Limb and Disk Mission Implementation: 2. Observations, Data Pipeline, and Level 1 Data Products. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA027809	2.6	15
224	Responses of the Thermosphere and Ionosphere System to Concurrent Solar Flares and Geomagnetic Storms. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027431	2.6	5
223	First Synoptic Observations of Geomagnetic Storm Effects on the Global-Scale OI 135.6-nm Dayglow in the Thermosphere by the GOLD Mission. *Geophysical Research Letters*, **2020**, 47, e2019GL085400	4.9	7
222	New Observations of Large-Scale Waves Coupling With the Ionosphere Made by the GOLD Mission: Quasi-16-Day Wave Signatures in the F-Region OI 135.6-nm Nightglow During Sudden Stratospheric Warmings. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA027880	2.6	14
221	Global-Scale Observations and Modeling of Far-Ultraviolet Airglow During Twilight. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027645	2.6	5

220	Global-Scale Observations of the Limb and Disk Mission Implementation: 1. Instrument Design and Early Flight Performance. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA027797	2.6	8
219	Initial Observations by the GOLD Mission. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA027823	2.6	36
218	The Two-Dimensional Evolution of Thermospheric O/N2 Response to Weak Geomagnetic Activity During Solar-Minimum Observed by GOLD. *Geophysical Research Letters*, **2020**, 47, e2020GL088838	4.9	29
217	First Global-Scale Synoptic Imaging of Solar Eclipse Effects in the Thermosphere. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA027789	2.6	6
216	Comparison of GOLD Nighttime Measurements With Total Electron Content: Preliminary Results. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027767	2.6	15
215	Neutral Exospheric Temperatures From the GOLD Mission. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA027814	2.6	5
214	MinXSS-2 CubeSat mission overview: Improvements from the successful MinXSS-1 mission. *Advances in Space Research*, **2020**, 66, 3-9	2.4	10
213	RENU2 UV PMT Observations of the Cusp. *Geophysical Research Letters*, **2020**, 47, e2019GL082314	4.9	1
212	Upper Atmosphere Radiance Data Assimilation: A Feasibility Study for GOLD Far Ultraviolet Observations. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 8154-8164	2.6	5
211	The Whole Atmosphere Community Climate Model Version 6 (WACCM6). *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 12380-12403	4.4	126
210	Quantifying the Storm Time Thermospheric Neutral Density Variations Using Model and Observations. *Space Weather*, **2019**, 17, 269-284	3.7	6
209	The Long-Term Trends of Nocturnal Mesopause Temperature and Altitude Revealed by Na Lidar Observations Between 1990 and 2018 at Midlatitude. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 5970-5980	4.4	14
208	Whole Atmosphere Climate Change: Dependence on Solar Activity. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 3799-3809	2.6	20
207	Solar Flare and Geomagnetic Storm Effects on the Thermosphere and Ionosphere During 6–11 September 2017. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 2298-2311	2.6	29
206	Global-Scale Observations of the Equatorial Ionization Anomaly. *Geophysical Research Letters*, **2019**, 46, 9318-9326	4.9	40
205	First Results From the Ionospheric Extension of WACCM-X During the Deep Solar Minimum Year of 2008. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 1534-1553	2.6	32
204	A Comparative Study of Spectral Auroral Intensity Predictions From Multiple Electron Transport Models. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 993-1005	2.6	11
203	Temporal Variability of Atomic Hydrogen From the Mesopause to the Upper Thermosphere. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 1006-1017	2.6	13

202	Whole Atmosphere Simulation of Anthropogenic Climate Change. *Geophysical Research Letters*, **2018**, 45, 1567-1576	4.9	44
201	Development and Validation of the Whole Atmosphere Community Climate Model With Thermosphere and Ionosphere Extension (WACCM-X 2.0). *Journal of Advances in Modeling Earth Systems*, **2018**, 10, 381-402	7.1	133
200	Self-Consistent Modeling of Electron Precipitation and Responses in the Ionosphere: Application to Low-Altitude Energization During Substorms. *Geophysical Research Letters*, **2018**, 45, 6371-6381	4.9	12
199	Simulation of the 21 August 2017 Solar Eclipse Using the Whole Atmosphere Community Climate Model-eXtended. *Geophysical Research Letters*, **2018**, 45, 3793-3800	4.9	15
198	Validation of Ionospheric Specifications During Geomagnetic Storms: TEC and foF2 During the 2013 March Storm Event. *Space Weather*, **2018**, 16, 1686-1701	3.7	16
197	Space Weather Modeling Capabilities Assessment: Neutral Density for Orbit Determination at low Earth orbit. *Space Weather*, **2018**, 16, 1806-1816	3.7	16
196	Ionospheric Electron Content During Solar Cycle 23. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 5223-5231	2.6	6
195	Thermospheric recovery during the 5 April 2010 geomagnetic storm. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 4588-4599	2.6	17
194	New Solar Irradiance Measurements from theMiniature X-Ray Solar SpectrometerCubesat. *Astrophysical Journal*, **2017**, 835, 122	4.7	28
193	Carbon dioxide trends in the mesosphere and lower thermosphere. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 4474-4488	2.6	22
192	The Global-Scale Observations of the Limb and Disk (GOLD) Mission. *Space Science Reviews*, **2017**, 212, 383-408	7.5	63
191	Global modeling of thermospheric airglow in the far ultraviolet. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 7834-7848	2.6	42
190	Longitudinal variations of thermospheric composition at the solstices. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 6818-6829	2.6	5
189	Relative importance of horizontal and vertical transports to the formation of ionospheric storm-enhanced density and polar tongue of ionization. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 8121-8133	2.6	40
188	Thermospheric hydrogen response to increases in greenhouse gases. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 3545-3554	2.6	5
187	Solar cycle variations of thermospheric composition at the solstices. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 3740-3749	2.6	6
186	Comment on Atmospheric ionization by high-fluence, hard spectrum solar proton events and their probable appearance in the ice core archivedby A. L. Melott et al.. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 12,484-12,489	4.4	1
185	Effects of the equatorial ionosphere anomaly on the interhemispheric circulation in the thermosphere. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 2522-2530	2.6	14

184	Scientific objectives and capabilities of the Coronal Solar Magnetism Observatory. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 7470-7487	2.6	27
183	Miniature X-Ray Solar Spectrometer: A Science-Oriented, University 3U CubeSat. *Journal of Spacecraft and Rockets*, **2016**, 53, 328-339	1.5	31
182	Nitrate ion spikes in ice cores not suitable as proxies for solar proton events. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 2994-3016	4.4	22
181	Where does the Thermospheric Ionospheric GEospheric Research (TIGER) Program go?. *Advances in Space Research*, **2015**, 56, 1547-1577	2.4	9
180	New 3-D simulations of climate change in the thermosphere. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 2183-2193	2.6	30
179	Explaining solar cycle effects on composition as it relates to the winter anomaly. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 5890-5898	2.6	20
178	A fast, parameterized model of upper atmospheric ionization rates, chemistry, and conductivity. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 4936-4949	2.6	11
177	An investigation comparing ground-based techniques that quantify auroral electron flux and conductance. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 9038-9056	2.6	21
176	Modes of high-latitude auroral conductance variability derived from DMSP energetic electron precipitation observations: Empirical orthogonal function analysis. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 11,013	2.6	28
175	A self-consistent model of helium in the thermosphere. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 6884-6900	2.6	22
174	Energetics and Composition in the Thermosphere. *Geophysical Monograph Series*, **2014**, 39-48	1.1	6
173	The NCAR TIE-GCM. *Geophysical Monograph Series*, **2014**, 73-83	1.1	154
172	New aspects of the ionospheric response to the October 2003 superstorms from multiple-satellite observations. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 2298-2317	2.6	44
171	Secular changes in the thermosphere and ionosphere between two quiet Sun periods. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 2255-2262	2.6	18
170	Global ionospheric total electron contents (TECs) during the last two solar minimum periods. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 2090-2100	2.6	23
169	The winter helium bulge revisited. *Geophysical Research Letters*, **2014**, 41, 6603-6609	4.9	13
168	Total volcanic stratospheric aerosol optical depths and implications for global climate change. *Geophysical Research Letters*, **2014**, 41, 7763-7769	4.9	131
167	Simulations of the equatorial thermosphere anomaly: Geomagnetic activity modulation. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 6821-6832	2.6	8

166	Wavelength dependence of solar irradiance enhancement during X-class flares and its influence on the upper atmosphere. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2014**, 115-116, 87-94	2	5
165	On the solar cycle variation of the winter anomaly. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 4938-4949	2.6	27
164	Nitrate deposition to surface snow at Summit, Greenland, following the 9 November 2000 solar proton event. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 6938-6957	4.4	14
163	Heating of the sunlit polar cap ionosphere by reflected photoelectrons. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 8660-8684	2.6	18
162	Global-Scale Observations of the Limb and Disk (Gold): New Observing Capabilities for the Ionosphere-Thermosphere. *Geophysical Monograph Series*, **2013**, 319-326	1.1	7
161	Effect of trends of middle atmosphere gases on the mesosphere and thermosphere. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 3846-3855	2.6	24
160	The anomalous ionosphere between solar cycles 23 and 24. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 6524-6535	2.6	86
159	Annual/semiannual variation of the ionosphere. *Geophysical Research Letters*, **2013**, 40, 1928-1933	4.9	68
158	The effect of solar radio bursts on the GNSS radio occultation signals. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 5906-5918	2.6	11
157	Simulation of polar stratospheric clouds in the specified dynamics version of the whole atmosphere community climate model. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 4991-5002	4.4	41
156	Anomalously low geomagnetic energy inputs during 2008 solar minimum. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		21
155	Daytime climatology of ionospheric NmF2 and hmF2 from COSMIC data. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		36
154	Global 3-D ionospheric electron density reanalysis based on multisource data assimilation. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		63
153	CMIT study of CR2060 and 2068 comparing L1 and MAS solar wind drivers. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2012**, 83, 39-50	2	14
152	The effects of Corotating interaction region/High speed stream storms on the thermosphere and ionosphere during the last solar minimum. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2012**, 83, 79-87	2	45
151	Solar flare impacts on ionospheric electrodyamics. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	39
150	Solar EUV and XUV energy input to thermosphere on solar rotation time scales derived from photoelectron observations. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		20
149	Modeling studies of the impact of high-speed streams and co-rotating interaction regions on the thermosphere-ionosphere. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		44

148	Trends in the Neutral and Ionized Upper Atmosphere. *Space Science Reviews*, **2012**, 168, 113-145	7.5	88
147	Thermospheric Density: An Overview of Temporal and Spatial Variations. *Space Science Reviews*, **2012**, 168, 147-173	7.5	78
146	On deriving incident auroral particle fluxes in the daytime using combined ground-based optical and radar measurements. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		1
145	Longitudinal variations of nighttime electron auroral precipitation in both the Northern and Southern hemispheres from the TIMED global ultraviolet imager. *Journal of Geophysical Research*, **2011**, 116,		13
144	Progress in observations and simulations of global change in the upper atmosphere. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		69
143	Causes of low thermospheric density during the 2007–2009 solar minimum. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		106
142	Variability of thermosphere and ionosphere responses to solar flares. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		52
141	The summer evening anomaly and conjugate effects. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		28
140	Global distribution, seasonal, and inter-annual variations of mesospheric semidiurnal tide observed by TIMED TIDI. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2011**, 73, 2482-2502	2	47
139	Ionospheric Day-to-Day Variability Around the Whole Heliosphere Interval in 2008. *Solar Physics*, **2011**, 274, 457-472	2.6	40
138	Trends in the Neutral and Ionized Upper Atmosphere. *Space Sciences Series of ISSI*, **2011**, 113-145	0.1	1
137	Thermospheric Density: An Overview of Temporal and Spatial Variations. *Space Sciences Series of ISSI*, **2011**, 147-173	0.1	1
136	Ionospheric response to the initial phase of geomagnetic storms: Common features. *Journal of Geophysical Research*, **2010**, 115,		58
135	Seasonal and hemispheric variations of the total auroral precipitation energy flux from TIMED/GUVI. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		30
134	Flare location on the solar disk: Modeling the thermosphere and ionosphere response. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		59
133	Geomagnetic influence on aircraft radiation exposure during a solar energetic particle event in October 2003. *Space Weather*, **2010**, 8, n/a-n/a	3.7	52
132	Anomalously low solar extreme-ultraviolet irradiance and thermospheric density during solar minimum. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	156
131	Parameterization of monoenergetic electron impact ionization. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	62

130	Model simulation of thermospheric response to recurrent geomagnetic forcing. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		39
129	Artificial plasma cave in the low-latitude ionosphere results from the radio occultation inversion of the FORMOSAT-3/COSMIC. *Journal of Geophysical Research*, **2010**, 115,		60
128	Contributions of stratospheric water vapor to decadal changes in the rate of global warming. *Science*, **2010**, 327, 1219-23	33.3	810
127	Thermosphere extension of the Whole Atmosphere Community Climate Model. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		113
126	The effect of carbon dioxide cooling on trends in the F2-layer ionosphere. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2009**, 71, 1592-1601	2	42
125	Seasonal variation of thermospheric density and composition. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		148
124	Spectral analysis of ionospheric electron density and mesospheric neutral wind diurnal nonmigrating tides observed by COSMIC and TIMED satellites. *Geophysical Research Letters*, **2009**, 36,	4.9	14
123	Unusual declining phase of solar cycle 23: Weak semi-annual variations of auroral hemispheric power and geomagnetic activity. *Geophysical Research Letters*, **2009**, 36,	4.9	8
122	Photoelectrons as a tool to evaluate spectral variations in solar EUV irradiance over solar cycle timescales. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		15
121	Building and Using Coupled Models for the Space Weather System: Lessons Learned. *Space Weather*, **2009**, 7, n/a-n/a	3.7	3
120	Structure of the nonmigrating semidiurnal tide above Antarctica observed from the TIMED Doppler Interferometer. *Journal of Geophysical Research*, **2009**, 114,		18
119	Thermal escape of carbon from the early Martian atmosphere. *Geophysical Research Letters*, **2009**, 36, n/a-n/a	4.9	102
118	Reversed ionospheric convections during the November 2004 storm: Impact on the upper atmosphere. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		11
117	Model simulations of global change in the ionosphere. *Geophysical Research Letters*, **2008**, 35, n/a-n/a	4.9	52
116	Altitude variations of the horizontal thermospheric winds during geomagnetic storms. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		28
115	Global distribution and interannual variations of mesospheric and lower thermospheric neutral wind diurnal tide: 2. Nonmigrating tide. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		39
114	Driving the TING model with GAIM electron densities: Ionospheric effects on the thermosphere. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		24
113	Electromagnetic waves generated by ionospheric feedback instability. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		15

112	Observations and simulations of the ionospheric and thermospheric response to the December 2006 geomagnetic storm: Initial phase. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		104
111	Ionospheric annual asymmetry observed by the COSMIC radio occultation measurements and simulated by the TIEGCM. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		76
110	An event study to provide validation of TING and CMIT geomagnetic middle-latitude electron densities at the F2 peak. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		7
109	Hydrodynamic planetary thermosphere model: 2. Coupling of an electron transport/energy deposition model. *Journal of Geophysical Research*, **2008**, 113,		31
108	Influence of Space Weather on Aircraft Ionizing Radiation Exposure **2008**,		5
107	Ionospheric electric field variations during a geomagnetic storm simulated by a coupled magnetosphere ionosphere thermosphere (CMIT) model. *Geophysical Research Letters*, **2008**, 35,	4.9	65
106	Midlatitude nighttime enhancement in F region electron density from global COSMIC measurements under solar minimum winter condition. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		56
105	An improved parameterization of thermal electron heating by photoelectrons, with application to an X17 flare. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		17
104	Meridional winds derived from COSMIC radio occultation measurements. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		23
103	Observations and simulations of quasiperiodic ionospheric oscillations and large-scale traveling ionospheric disturbances during the December 2006 geomagnetic storm. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		36
102	Behavior of the F2 peak ionosphere over the South Pacific at dusk during quiet summer conditions from COSMIC data. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		76
101	Electron impact ionization: A new parameterization for 100 eV to 1 MeV electrons. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		60
100	Geology of the Caloris basin, Mercury: a view from MESSENGER. *Science*, **2008**, 321, 73-6	33.3	114
99	Reflectance and color variations on Mercury: regolith processes and compositional heterogeneity. *Science*, **2008**, 321, 66-9	33.3	143
98	The structure of Mercury's magnetic field from MESSENGER's first flyby. *Science*, **2008**, 321, 82-5	33.3	176
97	Mercury's exosphere: observations during MESSENGER's First Mercury flyby. *Science*, **2008**, 321, 92-4	33.3	69
96	MESSENGER observations of the composition of Mercury's ionized exosphere and plasma environment. *Science*, **2008**, 321, 90-2	33.3	113
95	XUV Photometer System (XPS): Improved Solar Irradiance Algorithm Using CHIANTI Spectral Models. *Solar Physics*, **2008**, 250, 235-267	2.6	53

94	Thermospheric neutral density response to solar forcing. *Advances in Space Research*, **2008**, 42, 926-932	2.4	11
93	Global distribution and interannual variations of mesospheric and lower thermospheric neutral wind diurnal tide: 1. Migrating tide. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		51
92	Electrodynamics of magnetosphere-ionosphere coupling and feedback on magnetospheric field line resonances. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		18
91	Comparison of COSMIC ionospheric measurements with ground-based observations and model predictions: Preliminary results. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		226
90	Modeling the whole atmosphere response to solar cycle changes in radiative and geomagnetic forcing. *Journal of Geophysical Research*, **2007**, 112,		209
89	Duration of an ionospheric data assimilation initialization of a coupled thermosphere-ionosphere model. *Space Weather*, **2007**, 5, n/a-n/a	3.7	29
88	An analysis of neutral wind generated currents during geomagnetic storms. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2007**, 69, 159-165	2	8
87	The ionospheric and thermospheric response to CMEs: Challenges and successes. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2007**, 69, 77-85	2	55
86	Enhancement of OI 630.0nm emission at mid-latitudes during an intense magnetic storm. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2007**, 69, 697-706	2	2
85	Space Weather Nowcasting of Atmospheric Ionizing Radiation for Aviation Safety **2007**,		3
84	TIMED Doppler Interferometer: Overview and recent results. *Journal of Geophysical Research*, **2006**, 111,		108
83	TIMED Doppler Interferometer on the Thermosphere Ionosphere Mesosphere Energetics and Dynamics satellite: Data product overview. *Journal of Geophysical Research*, **2006**, 111,		27
82	Aspects of data assimilation peculiar to space weather forecasting. *Space Weather*, **2006**, 4, n/a-n/a	3.7	15
81	Calculated and observed climate change in the thermosphere, and a prediction for solar cycle 24. *Geophysical Research Letters*, **2006**, 33,	4.9	66
80	Vertical variations in the N2 mass mixing ratio during a thermospheric storm that have been simulated using a coupled magnetosphere-ionosphere-thermosphere model. *Journal of Geophysical Research*, **2006**, 111,		16
79	Observations of the solar soft X-ray irradiance by the student nitric oxide explorer. *Advances in Space Research*, **2006**, 37, 209-218	2.4	12
78	The TIGER (thermospheric□nospheric geospheric research) program: Introduction. *Advances in Space Research*, **2006**, 37, 194-198	2.4	10
77	Numerical models of the E-region ionosphere. *Advances in Space Research*, **2006**, 37, 1031-1037	2.4	25

76	TIMED Doppler interferometer (TIDI) observations of migrating diurnal and semidiurnal tides. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2006**, 68, 408-417	2	50
75	Response of the Upper/Middle Atmosphere to Coronal Holes and Powerful High-Speed Solar Wind Streams in 2003. *Geophysical Monograph Series*, **2006**, 319-340	1.1	29
74	The October 28, 2003 extreme EUV solar flare and resultant extreme ionospheric effects: Comparison to other Halloween events and the Bastille Day event. *Geophysical Research Letters*, **2005**, 32,	4.9	171
73	Solar EUV Experiment (SEE): Mission overview and first results. *Journal of Geophysical Research*, **2005**, 110,		400
72	Study of the proton arc spreading effect on primary ionization rates. *Journal of Geophysical Research*, **2005**, 110,		11
71	A high-latitude 8-hour wave in the mesosphere and lower thermosphere. *Journal of Geophysical Research*, **2005**, 110,		8
70	Incoherent scatter radar measurements and modeling of high-latitude solar photoionization. *Journal of Geophysical Research*, **2005**, 110,		4
69	Solar extreme-ultraviolet irradiance for general circulation models. *Journal of Geophysical Research*, **2005**, 110,		189
68	High-resolution, coupled thermosphere–ionosphere models for space weather applications. *Advances in Space Research*, **2005**, 36, 2486-2491	2.4	9
67	Multi-year high latitude mesospheric neutral wind observations using a Fabry–Perot interferometer. *Advances in Space Research*, **2005**, 35, 1895-1899	2.4	9
66	New perspectives on ancient Mars. *Science*, **2005**, 307, 1214-20	33.3	230
65	A new Fabry-Perot interferometer for upper atmosphere research **2004**, 5660, 218		43
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